

### Single Number Access For Multiple Locations (1098)

Single Number Access for Multiple Locations allows subscribers with multiple locations to advertise a single 7-digit telephone number LATAwide. Calls to the subscriber's number are routed to the most appropriate location based on subscriber-selected parameters, such as originating geographic location, time-of-day, day-of-week, or percent distribution of calls.

| Generic Name of ONA Service                 | Product Name               | BSE or CNS |
|---|----------------------------|------------|
| Single Number Access for Multiple Locations | BS - Area Number Calling * | CNS        |

#### FEATURE OPERATION:

Subscribers desiring the Single Number Access for Multiple Locations service must contact the telephone company to have the service established. They are assigned a 7-digit number in an NXX code dedicated for this service. Calls originating to the dedicated NXX are recognized as requiring special handling. AIN Release 0 offices send a query to the service control point (SCP) which determines the "real" (local telephone network number) terminating number based on the number dialed and the parameters selected by the subscriber. This information is transmitted back to the querying office, which uses the "real" terminating number to route the call. If the call originates in an office that is not AIN Release 0 capable but is SS7 capable, then the call, including the calling number, is routed to an office that can perform the SCP query and route the call. If the originating office is neither AIN Release 0 nor SS7 capable, it is routed to an AIN capable office without the calling number and treated as agreed upon by the telephone company and the subscriber.

#### TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

| Switch Type              | 1A ESS   | 5ESS | DMS-100 |
|--------------------------|----------|------|---------|
| Earliest Generic Release | See Note | 5E8  | BCS35   |

Note: A 1AESS cannot access the SCP to translate the call, but if it is equipped with 1AE10 and SS7 capability, it can route the call to a 5ESS or DMS-100 for handling.

2. Feature operation is dependent on the type of central office switch in which the call originates, not the switch type that the subscriber is served by.
3. Calls are dialed on a 7-digit basis throughout the LATA. If toll charges are involved (if the 7-digit number is translated to a 10-digit intraLATA toll number), they are billed as agreed to by the telephone company and the subscriber.
4. Geographic routing will allow calls to be routed based on originating wire center, or on originating block group boundaries. Block groups are based on the U. S. Census Bureau-based geographical coordinates, and will allow subscribers to design their own service areas below the wire center level.

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\* Service is only available to existing BellSouth subscribers.

5. Time-of-Day routing is based on the time the originating call is made.
6. Day-of-Week routing is based on which day of the week the calls are made.
7. Percent distribution routing allows the subscriber to distribute the call volumes going to each location, i.e., 20% to Location A, 30% to Location B, etc.
8. Default treatment will be specified for calls not mapped to a particular location, such as out of area calls, and calls without calling line identification delivered with the call.
9. Reference: Not available.

**Speed Calling (1087)**

Speed Calling (eight number) allows a subscriber to establish a connection to certain directory numbers by dialing one digit instead of seven to ten digits. The service has a limit of eight speed calling access codes (each single digit code is associated with a telephone number).

Speed Calling (thirty number) allows a subscriber to establish a connection to certain directory numbers by dialing two digits instead of seven to ten digits. The service has a limit of 30 speed calling access codes (each two digit code is associated with a telephone number).

The telephone numbers associated with access codes of a speed call list are determined by the client. The client has the ability to add or change the telephone numbers assigned to such codes through use of the client's station.

| Generic Name of ONA Service | Product Name                       | BSE or CNS |
|-----------------------------|------------------------------------|------------|
| Speed Calling               | AM - Speed Calling                 | CNS        |
|                             | BA - Speed Calling                 | CNS        |
|                             | BS - Speed Calling                 | CNS        |
|                             | NX - Speed Calling                 | CNS        |
|                             | PB - Speed Calling (8 & 30 Number) | CNS        |
|                             | SWB - Speed Calling                | CNS        |
|                             | Qwest - Speed Calling (8 Number)   | CNS        |
|                             | Qwest - Speed Calling (30 Number)  | CNS        |

**FEATURE OPERATION:**

1. To call any of the directory numbers assigned to a Speed Call list, the subscriber performs the following operations:
  1. Listen for dial tone.
  2. Dial the one or two-digit Speed Call code assigned to the desired directory number. After a four-second pause, the call is processed. (Callers from touchtone telephones can avoid the four-second pause by dialing # after the Speed Call code.)
2. To change any numbers or to add a number to the Speed Call list, the following operations are performed from the subscriber's line:
  - a. Listen for dial tone.
  - b. Dial the applicable Speed Call change code (typically three or four digits).
  - c. After receipt of second dial tone, dial the Speed Call code that is changing or being added and then dial the new directory number associated with the Speed Call code. (If a fast busy tone is encountered the action must be repeated because the change did not occur.)

## TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

| Switch Type              | 1A ESS | 5ESS   | DMS-100 |
|--------------------------|--------|--------|---------|
| Earliest Generic Release | 1AE8A  | 5E2(2) | BCS17   |

2. The maximum number of digits in the telephone number assigned to the Speed Call code is 15 in the 1A ESS, 32 in the 5ESS and 15 in the DMS-100.
3. Multiline subscribers can have Speed Calling on each line if desired.
4. Speed Calling can be used in conjunction with Three-Way Calling or Three-Way Call Transfer if the subscriber wishes to add to an established call someone who is on their Speed Call list.
5. Subscribers with Speed Calling (eight-number) can also have Speed Calling (thirty-number) Shared Speed Calling (two-digit) on the same line. Subscribers with Speed Calling (thirty-number) can also have Speed Calling (eight-number) Shared Speed Calling (one-digit) on the same line.
6. References:
  - GR-570 LSSGR: Speed Calling, FSD 01-02-1101 (A Module of LSSGR, FR-64), Issue 1, June 2000 (replaces TR-TSY-000570 Issue 1 – no technical changes).

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.

## Tandem Routing (1088)

Tandem Routing provides for access by ESPs to the exchange network with trunk and/or line interfaces through tandem switches. This allows ESPs to interconnect with the network at a single point and be accessed by customers in a selected group of end offices, all of which subtend that tandem. In some jurisdictions, at the option of the ESP, calls from a particular end office may be blocked or forwarded to the ESP, allowing the ESP to create a custom services area from the LATA sector served by the tandem.

| Generic Name of ONA Service | Product Name              | BSE or CNS |
|-----------------------------|---------------------------|------------|
| Tandem Routing              | AM - Tandem Routing       | BSA *      |
|                             | BA - Tandem Routing       | BSE        |
|                             | BS - Custom Service Areas | BSE        |
|                             | NX - Tandem Routing       | BSA *      |
|                             | PB - Tandem Routing       | BSA *      |
|                             | Qwest - Tandem Routing    | BSA *      |

### FEATURE OPERATION:

Tandem translations supply data for routing calls over tandem trunks. Tandem trunks that are incoming from a tandem office or central office cannot terminate at a line or tone circuit in a local office, with the exception of a connection to reorder tone when all outgoing trunks are busy or a network blockage occurs. Instead, these trunks are switched to tandem completing trunks that are outgoing to a local office.

### TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

| Switch Type              | 1A ESS | 5ESS   | DMS-100 |
|--------------------------|--------|--------|---------|
| Earliest Generic Release | 1AE8A  | 5E2(2) | BCS19   |

2. All three switch types require specific generic software to configure the switch for tandem operation. An example of this is the Northern Telecom NTX386AA feature package, used in the DMS 100/200 to configure this switch for Access Tandem capabilities. This feature package enables access tandem translations and screening, trunking, treatments, and billing as well as various software support features. Because all offices do not contain the necessary feature packages for tandem trunking, the local exchange company must be contacted for specific geographic locations of the switches with this capability.
3. In some regional companies, this service may be limited to trunk side access services utilizing Feature Groups B and D protocol, or Feature Group D protocol only.

\* For Ameritech, NYNEX, Pacific Bell and Qwest, this is met by an alternative of the Circuit Switched Trunk BSA.

**4. References:**

- GR-540 LSSGR: Tandem Supplement (A Module of LSSGR, FR-64), Issue 2, March 1999 (Replaces TR-TSY-000540, Issue 2).

This service, if offered as a BSE, is associated with the Circuit Switched Trunk basic serving arrangement.

**Three Way Call Transfer (1089)**

Three Way Call Transfer provides the ESP who is on an established call with the ability to add another party to perform a three way conference. After establishing the conference, the ESP may drop their connection without disconnecting the remaining two parties. This action allows the ESP to transfer specific calls and free their line to initiate or receive another call.

| Generic Name of ONA Service | Product Name                 | BSE or CNS |
|-----------------------------|------------------------------|------------|
| Three Way Call Transfer     | AM - Three Way Call Transfer | BSE        |
|                             | BA - Three-Way Call Transfer | BSE        |
|                             | BS - User Transfer           | BSE or CNS |
|                             | NX - Call Transfer           | BSE        |
|                             | PB - Call Transfer           | BSE        |
|                             | Qwest - Call Transfer        | BSE        |

**FEATURE OPERATION:**

1. To transfer an established call: Advise first party, then depress the receiver button (recall dial tone is heard); dial number of the third party (hear ringing); announce the call, depress the receiver button to add on the first party, then hang up.

**TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:**

1. This feature is available in the following central office switches:

| Switch Type              | 1A ESS | 5ESS | DMS-100 |
|--------------------------|--------|------|---------|
| Earliest Generic Release | 1AE8A* | 5E5* | BCS29   |

\* Note that on the 1A ESS and 5ESS, this is made available by placing customers in a Centrex Common Block.

2. An additional option for the ESP with Centrex is to allow calls to be transferred outside of the Centrex environment. This optional feature is known as DID/DOD Transfer.
3. Call Forwarding Variable is compatible with Three Way Call Transfer service.
4. Call Hold and Three Way Call Transfer can be assigned to the same line.
5. Call Pickup and Three Way Call Transfer can be assigned to the same line.
6. Speed Calling and Three Way Call Transfer can be assigned to the same line.
7. Three Way Call Transfer may be assigned to either or both parties on a Two-Party Line.

8. Three Way Call Transfer may not be provided on the following lines:

- Coin Lines
- Denied Originating Lines
- Four and Eight Party Lines
- PBX Lines
- Hotel/Motel Calls Routed to TSPS

9. References:

- GR-579 LSSGR: Add-On Transfer and Conference Calling Features, FSD 01-02-1305 (A Module of LSSGR, FR-64), Issue 1, June 2000 (replaces TR-TSY-000579 Issue 1 – no technical changes).

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.



### Uniform 7 Digit Access Number - Remote Call Forwarding (1090)

This capability provides a uniform seven-digit telephone number which can be dialed without an NPA prefix and is remotely call forwarded to an ESP, thereby giving an appearance of a local presence. The subscriber (ESP) may pay all end user customer usage charges and can specify a custom routing arrangement with either a central location or multiple locations throughout a LATA.

This capability uses Remote Call Forwarding technology, simulated facility groups and a dedicated NXX code. Custom Routing is an added feature.

| Generic Name of ONA Service                            | Product Name            | BSE or CNS |
|--|-------------------------|------------|
| Uniform 7 Digit Access Number - Remote Call Forwarding | BA - One Number Service | BSE        |

#### FEATURE OPERATION:

To reach a subscriber, a client dials the seven digit number assigned by the telephone company. The call is routed to the central office switch where the translations for the capability reside. From there the call is directed to the destination specified by the subscriber. The number of simultaneous calls that can be directed to a destination is controlled by a Simulated Facility Group. Calls are completed via the Public Switched Network.

To reach a subscriber with Custom Routing, a client dials the seven digit number assigned by the telephone company. The call is translated in the originating switch and directed to the destination specified by the subscriber. Since the translations are done in each originating switch, each switch can direct calls to a different destination. A Simulated Facilities Group is established in each end office switch with Custom Routing to limit the number of simultaneous calls that can be forwarded from that switch. Calls originating in switches without translations for this capability are routed to an announcement. Calls are completed via the Public Switched Network.

#### TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

| Switch Type              | 1A ESS | 5ESS   | DMS-100 |
|--------------------------|--------|--------|---------|
| Earliest Generic Release | 1AE8A  | 5E2(2) | BCS19   |

2. To establish this capability and to change an established arrangement for this capability requires a service order.
3. Subscribers desiring the Custom Routing option must specify the central office switches they wish to serve. Calls originating in an area that has not been designated as part of a Custom Routing area will receive a vacant code announcement.

#### 4. References:

- Reference for Remote Call Forwarding: GR-581 LSSGR: Remote Call Forwarding, FSD 01-02-1402 (A Module of LSSGR, FR-64), Issue 1, June 2000 (replaces TR-TSY-000581 Issue 1 – no technical changes).

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.

### **Uniform 7 Digit Access Number via Overlay Networking (1091)**

This feature provides the ESP with a uniform 7 digit directory number for use (for example) across a LATA, state or regional company. The clients will be able to dial one number from all locations within the specified area(s), and the calls will be routed to a specified ESP location within each LATA. Uniform Access Number is the ability of an ESP to use the same 7 digit telephone number in multiple service areas, possibly region-wide. All numbers used in Uniform Access Number will come from an NXX (or NXXs) especially designated for ESP use.

| <b>Generic Name of ONA Service</b>                   | <b>Product Name</b>                            | <b>BSE or CNS</b> |
|--|--|-------------------|
| Uniform 7 Digit Access Number via Overlay Networking | BS - Uniform Access Numbers for Business Lines | BSE               |

#### **FEATURE OPERATION:**

The feature is supported by trunking architecture that could include direct and tandem switching center routing to the called ESP. Future routing plans will include Common Channel Signaling (SS7) technology.

#### **TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:**

1. No specific vendor software or features are required. Specific telephone company architecture, capabilities and operation could vary.
2. References:
  - No requirements reference available.

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.

**Warm Line (1092)**

The warm line capability is a Central Office switch based automatic dialing feature.

If an ESP's client with a warm line capability goes off-hook and commences dialing within the time delay period, the call will proceed normally as dialed. If dialing has not started before the end of the time delay period, a stored number is automatically dialed.

| Generic Name of ONA Service | Product Name      | BSE or CNS |
|-----------------------------|-------------------|------------|
| Warm Line                   | AM - Easy Call    | CNS        |
|                             | BA - Warm Line    | CNS        |
|                             | BS - Warm Line    | CNS        |
|                             | NX - Warm Line    | BSE or CNS |
|                             | PB - Warm Line    | CNS        |
|                             | SWB - Warm Line   | CNS        |
|                             | Qwest - Warm Line | CNS        |

**FEATURE OPERATION:**

1. A subscriber of this service, upon going off-hook to initiate an outgoing call has the option to either:
  - a. Dial the call in the normal manner or
  - b. Wait for the prespecified time delay period and have the call automatically dialed to a single predetermined number or
  - c. If calling from a touchtone phone, dial the # to immediately activate the automatic dialing.
2. The service, including the time delay interval and the predetermined number, is initially activated via a service order with the telephone company.
3. Subsequent changes to the time delay interval may only be made via a telephone company service order. Changes to the predetermined number may be made via a telephone company service order or, as an option, be made from the subscriber's line in the following manner:
  - a. Listen for dial tone.
  - b. Dial a telephone company assigned update code and receive second dial tone after a four second pause (subscribers with touchtone lines can avoid this pause by dialing # after the update code).
  - c. Dial the new number. After a short time-out period, the new number will be active.

If the above-described option is available, the service can be deactivated by following the same procedure but not dialing in a new number. To reactivate the service, the subscriber would again follow the above-described procedure and must re-enter the predetermined number.

**TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:**

1. This feature is available in the following central office switches:

|                          |                |
|--------------------------|----------------|
| <b>Switch Type</b>       | <b>DMS-100</b> |
| Earliest Generic Release | BCS17          |

2. The predetermined telephone number can be any number normally dialable from the subscriber's line.
3. The time delay period is specified on a per line basis and can range from 0 to 20 seconds (a usual value would be 4 or 5 seconds).
4. Incoming calls are unaffected by this service.
5. A line with this service cannot have Hot Line service.
6. Warm Line can be used in conjunction with Three Way Calling or Three Way Call Transfer if the subscriber wishes to add the predetermined number to an established call.
7. No LSSGR reference available.

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.